NC/QC/YD/2020-21/YSD-CC-C1 Date: 29-02-2020

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Construction of CC road in Ward No. 03 Attur, Yelahanka.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: N. Jagadish, Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	164 min	Shall not be less than 30 min
2	Final setting time	265min	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	2.14%	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	2.09mm	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	28.74 N/Sq mm	Shall not be less than 27 N/Sqmm

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NEWZEN CONSULTANT * BANGALORE *

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-೫೬

NC/QC/YD/2020-21/YSD-CC-PCC1 Date: 29-02-2020

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Construction of CC road in Ward No. 03 Attur, Yelahanka.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: N. Jagadish, Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	67.15	0 -20	30- 70
10mm	32.45	0 -5	10- 35
4.75mm	3.55	-----	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	97.45	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	83.20	60-95	75-100	85-100	
01.18	74.15	30-70	55-90	75-100	
600.mic	47.80	15-34	35-59	60-79	
300.mic	23.55	5-20	8-30	12-40	
150.mic	7.90	0-10	0-10	0-10	

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NC/QC/YD/2020-21/YSD-CC-K1

Date: 29-02-2020

TEST REPORT

Sub: Testing of Pre-cast Material-Kerb Stones.
{Project*: Construction of CC road in Ward No. 03 Attur, Yelahanka.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: N. Jagadish, Bangalore.

1. PHYSICAL TESTS ON KERB STONES :

Sl No.	Identification	Flexural strength, fcr in N/sqmm	Characteristic Compressive Strength, fck in N/sqmm	Avg. Characteristic. Compressive Strength fck in N/sqmm	Remarks
1	001	3.35	22.95	23.31	As per Cl. 6.2.2 of IS 456-2000, fcr=0.7√ fck
2	002	3.38	23.35		
3	003	3.40s	23.65		

2. WATER ABSORPTION TEST

Sl No	Identification	Water absorption %	Average value %
1	001	4.49	4.45
2	002	4.35	
3	003	4.52	

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ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

NC/QC/YD/2020-21/YSD-CC-GSB1 Date: 04-05-2020

TEST REPORT ON GRANULAR SUBBASE MIX
(GRADATION TEST)

Sub: To conduct tests on GSB (Grade-V) mix.
{Project*: Construction of CC road in Ward No. 03 Attur, Yelahanka.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: N. Jagadish, Bangalore.

TEST RESULTS

1. **Gradation Test:**
TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
75.00	100.00	100
53.00	97.30	80-100
26.50	70.15	55-90
9.50	52.80	35-65
4.75	41.10	25-50
2.36	17.65	10-20
0.85	8.05	2-10
0.425	3.45	0-5

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ಜಿ.ಬಿ.ಎ.ಎ.ಪಿ. ಬೆಂಗಳೂರು-106

Date: 04-05-2020

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS 383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Water absorption, %	0.42 %	Not more than 2.0 %
2.	Liquid Limit, %	18.36	Not more than 25.0 %
3.	Plasticity Index, %	NP	Not more than 6.0 %
4.	Moisture Content, %	6.44	----------
5.	Aggregate Impact Value, %	28.69	Not more than 40.00 %

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NC/QC/YD/2020-21/YSD-CC-C3 Date: 07-03-2020

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Construction of CC road in Ward No. 03 Attur, Yelahanka.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: N. Jagadish, Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	164 min	Shall not be less than 30 min
2	Final setting time	275 min	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	2.15 %	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	2.09 mm	Shall not be more than 10 mm
5	Compressive strength c) 3 days (average of three results)	29.13 N/Sq mm	Shall not be less than 27 N/Sqmm

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NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187

NC/QC/YD/2020-21/YSD-CC-C4

Date: 18-03-2020

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Construction of CC road in Ward No. 03 Attur, Yelahanka.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: N. Jagadish, Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	152 min	Shall not be less than 30 min
2	Final setting time	280 min	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	1.86 %	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	1.94 mm	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	28.54 N/Sq mm	Shall not be less than 27 N/Sqmm

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NC/QC/YD/2020-21/YSD-CC-FA1

Date: 18-03-2020

1. TESTING OF FINE AGGREGATES :

Sub: Testing of Fine Aggregates.
{Project*: Construction of CC road in Ward No. 03 Attur, Yelahanka.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: N. Jagadish, Bangalore.

TABLE - 1.1 : SIEVE ANALYSIS

IS Sieve Size,mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -II	
04.75	98.35	90-100	90-100	90-100	The Sample Conforms to Grading Zone-II
02.36	82.10	60-95	75-100	85-100	
01.18	74.50	30-70	55-90	75-100	
600. mic	46.90	15.34	35-59	60-79	
300.mic	24.05	5-20	8-30	12-40	
150.mic	8.35	0-10	0-10	0-10	

TABLE 1.2 ;

Sl No	Test Conducted	Sample	Results	Requirements as Per IS. Specification IS :383-1970 (Reaffirmed 2002)
1	Bulking of Sand	001	17.63 %	-----
2	Silt Content	----	0.59%	Not more than 8%
3	Specific Gravity	----	2.61	-------

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NC/QC/YD/2020-21/YSD-CC-CB2

Date: 30-03-2020

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Construction of CC road in Ward No. 03 Attur, Yelahanka.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: N. Jagadish, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	23-03-20	30-03-20	07	22500	530	23.56	**23.70**
	002	"	"	"	"	525	23.33	
	003	"	"	"	"	545	24.22	

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Date: 30-03-2020

NC/QC/YD/2020-21/YSD-CC-CB3

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Construction of CC road in Ward No. 03 Attur, Yelahanka.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: N. Jagadish, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	23-03-20	30-03-20	07	22500	530	23.56	23.33
	002	"	"	"	"	530	23.56	
	003	"	"	"	"	515	22.89	

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NC/QC/YD/2020-21/YSD-CC-CB1A

Date: 20-04-2020

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Construction of CC road in Ward No. 03 Attur, Yelahanka.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: N. Jagadish, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	23-03-20	20-04-20	28	22500	730	32.44	32.15
	002	"	"	"	"	725	32.22	
	003	"	"	"	"	715	31.78	

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NC/QC/YD/2020-21/YSD-CC-CB3A

Date: 20-04-2020

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Construction of CC road in Ward No. 03 Attur, Yelahanka.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: N. Jagadish, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	23-03-20	20-04-20	28	22500	730	32.44	**32.81**
	002	"	"	"	"	745	33.11	
	003	"	"	"	"	740	32.89	

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
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NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE

NC/QC/YD/2020-21/YSD-CC-CB4A

Date: 21-04-2020

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Construction of CC road in Ward No. 03 Attur, Yelahanka.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: N. Jagadish, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	24-03-20	21-04-20	28	22500	740	32.89	32.44
	002	"	"	"	"	730	32.44	
	003	"	"	"	"	720	32.00	

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Date: 21-04-2020

NC/QC/YD/2020-21/YSD-CC-CB5A

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Construction of CC road in Ward No. 03 Attur, Yelahanka.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: N. Jagadish, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	24-03-20	21-04-20	28	22500	730	32.44	**32.52**
	002	"	"	"	"	745	33.11	
	003	"	"	"	"	720	32.00	

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ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-106